

## ABSTRACT

A water-cooled vertical engine includes: an exhaust guide cooling water jacket and an exhaust manifold cooling water jacket which are formed in an engine compartment; a cylinder block cooling water jacket formed in a cylinder block; and a cylinder head cooling water jacket formed in a cylinder head. Cooling water from a cooling water pump is supplied in parallel to an upper part and a lower part of the cylinder block cooling water jacket through the exhaust guide cooling water jacket and the exhaust manifold cooling water jacket.